

### Abstract

The invention relates to a method and a system for device-independent determination of coordinates of a point (P), displayed by means of a microscope, whereby, firstly, the device coordinates ( $x_1, y_1, z_1$ ), for the displayed reference point ( $E_1$ ), in a device-dependent coordinate system corresponding to the given object-related reference coordinates ( $X_1, Y_1, Z_1$ ) of at least one reference point in a DICOM-coordinate system and a transformation rule ( $\Phi$  for the conversion of device-dependent coordinates ( $x, y, z$ ) into the coordinates ( $X, Y, Z$ ) of the DICOM-coordinate system are determined. Finally, to complete the device-independent coordinate determination, the device coordinates ( $x_p, y_p, z_p$ ) for a displayed point (P) are converted into device-independent coordinates ( $X_p, Y_p, Z_p$ ) of the DICOM-coordinate system, by means of the determined transformation rule ( $\Phi$ ).

(Figure 2)